

Rayyan Haider

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EDUCATION

The University of Texas at Austin

Bachelor of Science in Computer Science, Minor in Business

May 2028

Austin, TX

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Management Information Systems

EXPERIENCE

Muslim Professional Society

Student Software Engineer

January 2026 – Present

Austin, TX

- Built a full-stack SEO auditor with Node.js, Next.js, and Supabase for 12,000+ keywords from 50+ seed queries.
- Implemented a keyword classification and ranking pipeline using 3 scoring factors: search volume, competition, and page relevance; grouped ranked results by search intent for the SEO auditing dashboard.
- Developed a React/Next.js dashboard with SWR data fetching for keyword priorities, competitor gaps, and content opportunities, replacing approximately 15 hours of manual analysis per month.

Voushify

Software Engineering Intern

May 2026 – September 2026

- Developed and debugged Python/FastAPI services across 5 product areas using SQLAlchemy, PostgreSQL, Redis, and Celery; translated a 40+ page PRD into scoped services, API changes, validation logic, and Alembic migrations, coordinating shared PostgreSQL schema updates through reviewed pull requests.
- Implemented OAuth identity linking and automatic user provisioning; resolved recurring magic-link HTTP 401 errors by enabling optional authentication and creating accounts for first-time users.
- Built a reusable PDF parser with 30 focused tests for invalid, empty, encrypted, textless, and oversized files.

AxeGenAi

AI Engineering Intern

September 2024 – May 2025

Melissa, TX

- Improved a TensorFlow/Keras CNN on CIFAR-10 from 32% to 75% accuracy by expanding the training set.
- Built a Python RAG pipeline for PDF Q&A; evaluated retrieval accuracy and failure cases with 20 questions.
- Analyzed 10+ AI/ML research papers to guide PyTorch language-model fine-tuning; documented architecture decisions and training results, along with the limitations identified in the language models.

PROJECTS

Journal-RAG | *Python, ChromaDB, BM25, pandas, sentence-transformers*

2026

- Built hybrid search over 3,600+ chunks from 4 years of journals using ChromaDB dense retrieval and BM25.
- Automated 18 golden test cases for retrieval quality, tool selection, exact matches, and answer faithfulness.
- Preprocessed and chunked journals with pandas and sentence-transformers for semantic and date-based retrieval.
- Generated embeddings and metadata for natural-language queries, citations, exact matches, and date filtering.

Full-Stack Personal Finance Platform | *TypeScript, React, FastAPI, PostgreSQL, Plaid*

2026

- Built a full-stack personal finance application with a TypeScript/React frontend and 9 FastAPI REST API domains covering account management, transaction tracking, budgets, financial goals, and reporting.
- Designed PostgreSQL data models with asynchronous SQLAlchemy, modular service layers, and Pydantic validation to maintain consistent financial data flows between API requests, backend services, and persistent storage.
- Built deterministic financial calculation tools and an SSE-streaming assistant with sub-second first-token latency.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, Bash, HTML/CSS

Frameworks: FastAPI, Node.js, Express.js, React, Next.js, PyTorch, TensorFlow/Keras

Databases & Infrastructure: PostgreSQL, Redis, Supabase, ChromaDB, Docker, AWS, Celery

Libraries & Testing: SQLAlchemy, Pydantic, pytest, pandas, NumPy, sentence-transformers, SWR

Developer Tools: Git, GitHub Actions, Linux/Unix, REST APIs, Alembic, OAuth